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 1 [Approaches to fault-tolerant and transactional mobile agent executio](#)
 Stefan Pleisch, André Schiper

☒ September 2004 **Computing Surveys (CSUR)**, Volume 36 Issue 3

Publisher: ACM ☒ [Request Permissions](#)

 Full text available: ☒ Pdf (946.94 KB)

 Additional Information: [full citation](#), [abstra](#)
Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 344, Downl

Over the past years, mobile agent technology has attracted considerable literature has been published. To further develop mobile agent technolo tolerance and transaction support ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronou tolerance, malicious places, mobile agents, replication, security, transac

 2 [Adaptive commitment for distributed real-time transactions](#)
☒ Nandit Soparkar, Eliezer Levy, Henry F. Korth, Avi Silberschatz

 November 1994 **CIKM '94: Proceedings of the third international conferenc**
 management

Publisher: ACM ☒ [Request Permissions](#)

 Full text available: ☒ Pdf (1.08 MB)

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Distributed real-time transaction systems are useful for both real-time e applications. Standard transaction management approaches that use th the its high costs and blocking behavior which ...

 3 [Revisiting commit processing in distributed database systems](#)
☒ Ramesh Gupta, Jayant Haritsa, Krithi Ramamritham

 June 1997 **SIGMOD '97: Proceedings of the 1997 ACM SIGMOD internat**
Publisher: ACM ☒ [Request Permissions](#)

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A significant body of literature is available on distributed transaction cor the relative merits of these protocols have not been studied with respec transaction processing ...

Also published in:

June 1997 **SIGMOD Record** Volume 26 Issue 2

4 Analysis of transaction management performance

 D. Duchamp

November 1989 **SOSP '89**: Proceedings of the twelfth ACM symposium on (

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.48 MB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Download

There is currently much interest in incorporating transactions into both programming languages. This paper provides a detailed examination of transaction manager of the Camelot system. ...

Also published in:


November 1989 **SIGOPS Operating Systems Review** Volume 23 Issue 5

5 Simplifying distributed database systems design by using a broadcast

 Jo-Mei Chang

June 1984 **SIGMOD '84**: Proceedings of the 1984 ACM SIGMOD internat

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.36 MB)

Additional Information: [full citation](#), [abstract](#)


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Atomic broadcast and failure detection are powerful primitives for distributed database system LAMBDA, they are provided as network primitive atomic broadcast and failure detection simplify ...

Also published in:


June 1984 **SIGMOD Record** Volume 14 Issue 2

6 Partition detection and optimistic commit for dynamically reconfigurable

 David Wong

January 1988 **SIGSMALL '88**: Proceedings of the 1988 ACM SIGSMALL/PC

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (1.14 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 25, Download


This paper addresses the problem of providing reliability in face of network reconfigurable distributed database system with an underlying hierarchical problems of partition detection ...

7 Supporting nested transactional memory in logTM

 Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. Hill, Wood

November 2006 **ASPLOS-XII**: Proceedings of the 12th international conference on programming languages and operating systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (239.03 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 105, Download


Nested transactional memory (TM) facilitates software composition by letting either knowing whether the other uses transactions. **Closed nested transaction** until the toplevel ...

Keywords: logTM, nesting, transactional memory

Also published in:

October 2006	SIGOPS Operating Systems Review	Volume 40 Issue 5
October 2006	SIGARCH Computer Architecture News	Volume 34 Issue 5
November 2006	SIGPLAN Notices	Volume 41 Issue 11

8 Transactions with isolation and cooperation

 Yannis Smaragdakis, Anthony Kay, Reimer Behrendts, Michal Young
October 2007 **OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(252.95 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 152, Downloads


We present the TIC (Transactions with Isolation and Cooperation) mode to standard transactional memory the ability for a transaction to observe points. This allows transactions ...

Keywords: TIC, nested transactions, open-nesting, punctuation, transactional

Also published in:

October 2007 **SIGPLAN Notices** Volume 42 Issue 10

9 Split hardware transactions: true nesting of transactions using best-effort

 Yossi Lev, Jan-Willem Maessen
February 2008 **PPoPP '08: Proceedings of the 13th ACM SIGPLAN Symposium on programming**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf \(384.30 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 83, Downloads


Transactional Memory (TM) is on its way to becoming the programming concurrent, and scalable programs. Hardware TM (HTM) implementation than pure software TM (STM); however, ...

Keywords: atomicity, nesting, transactional memory

10 Maximum benefit from a minimal HTM

 Owen S. Hofmann, Christopher J. Rossbach, Emmett Witchel
February 2009 **ASPLOS '09: Proceeding of the 14th international conference on programming languages and operating systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (457.43 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 167, Download

A minimal, bounded hardware transactional memory implementation significantly improves performance when used in an operating system kernel. We add HTM to a fine-grained synchronization structure. The ...


Keywords: hardware transactional memory

Also published in:

February 2009 **SIGPLAN Notices** Volume 44 Issue 3

11 Deadlock detection in distributed database systems: a new algorithm and analysis

Natalija Krivokapić, Alfons Kemper, Ehud Gudes

October 1999 **The VLDB Journal — The International Journal on Very Large Databases**
Publisher: Springer-Verlag New York, Inc.Full text available:  Pdf (289.96 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 134, Download

This paper attempts a comprehensive study of deadlock detection in distributed database systems. It discusses predominant deadlock models in these systems and the four different deadlock detection algorithms that are discussed. Afterwards, a ...

Keywords: Comparative performance analysis, Deadlock detection, Distributed database systems study

12 Lazy database replication with snapshot isolation

Khuzaima Daudjee, Kenneth Salem


September 2006 **VLDB '06: Proceedings of the 32nd international conference on Very Large Databases**
Publisher: VLDB EndowmentFull text available:  Pdf (567.69 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 130, Download

Snapshot isolation is a popular transactional isolation level in database systems. However, snapshot isolation has recently been proposed. These proposals propose local concurrency controls ...

13 A new approach to developing and implementing eager database replication

 Bettina Kemme, Gustavo AlonsoSeptember 2000 **Transactions on Database Systems (TODS)**, Volume 25**Publisher:** ACM  Request PermissionsFull text available:  Pdf (449.43 KB)


Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 235, Download

Database replication is traditionally seen as a way to increase the availability of databases. Although a large number of protocols providing data consistency have been proposed, few of these ideas have ...


Keywords: database replication, fault-tolerance, group communication replica control, total error multicast

14 [Maintaining consistency in a failure-prone P2P database network du](#)

 Md Mehedi Masud, Iluju Kiringa

March 2008 **DaMaP '08: Proceedings of the 2008 international workshop on systems**

Publisher: ACM


Full text available:  Pdf (751.39 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Download

A peer database network consists of peers in which each peer has its own local database (LDBS). In a peer database network, the integration of sources is performed by each peer shares its local database information ...

15 [Virtualizing Transactional Memory](#)

 Ravi Rajwar, Maurice Herlihy, Konrad Lai

June 2005 **ISCA '05: Proceedings of the 32nd annual international symposium on computer architecture**

Publisher: ACM

Full text available:  Pdf (199.77 KB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 119, Download

Writing concurrent programs is difficult because of the complexity of enforcing consistency. Conventional lock-based synchronization suffers from wellknown limitations. This paper presents a non-blocking transactions as an alternative. ...

Also published in:


May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

16 [McRT-Malloc: a scalable transactional memory allocator](#)

 Richard L. Hudson, Bratin Saha, Ali-Reza Adl-Tabatabai, Benjamin C. Hertz

June 2006 **ISMM '06: Proceedings of the 5th international symposium on memory management**

Publisher: ACM 

Full text available:  Pdf (332.45 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 153, Download

Emerging multi-core processors promise to provide an exponentially increasing number of processors per generation. Applications will need to be highly concurrent to fully utilize the available processing power. This paper presents a memory management system that enables maximum concurrency, libraries ...


Keywords: memory management, runtimes, synchronization, transactional memory

17 [Dependence-aware transactional memory for increased concurrency](#)

 Hany E. Ramadan, Christopher J. Rossbach, Emmett Witchel

November 2008 **MI CRO '08: Proceedings of the 2008 41st IEEE/ACM International Symposium on Microarchitectures**

Publisher: IEEE Computer Society

Full text available:  Pdf (529.01 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 72, Download

Transactional memory (TM) is a promising paradigm for helping program core platforms. Though they perform well under low contention, hardware performing well under high contention, ...

18 Priority assignment in real-time active databases

Rajendran M. Sivasankaran, John A. Stankovic, Don Towseley, Bhaskar Puri
January 1996 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (634.63 KB)


Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloads


Active databases and real-time databases have been important areas of research. It is recognized that many benefits can be gained by integrating real-time and active databases. However, not much work has been done ...

Keywords: Active databases - Coupling mode - Deadlines - ECA - Priority

19 Tolerating byzantine faults in transaction processing systems using consensus

 Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden
October 2007 **SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium**

Publisher: ACM 

Full text available:  Pdf (390.75 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 139, Downloads

This paper describes the design, implementation, and evaluation of a replication scheme for transaction processing database systems. The scheme compares multiple replicas which are unmodified, ...


Keywords: byzantine fault tolerance, databases, state machine replication

Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

20 Performance modeling of nested transactions in database systems

Hossam S. Hassanein, Mohamed E. El-Sharkawi
November 2000 **CASCON '00: Proceedings of the 2000 conference of the C**
Publisher: IBM Press

Full text available:  Pdf (148.66 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 49, Downloads

The nested transaction model was introduced to satisfy the requirements of object-oriented databases. Moreover, it is currently the basic transaction model for new databases and object-relational databases. ...

Keywords: nested transactions, performance evaluation, simulation, transaction

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